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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/036,912	12/21/2001	Steven Thomas Perri	32887-168168	5101	
7590 05/27/2004		EXAMINER			
Cynthia B. Rothschild			DENTZ, BERNARD I		
Kilpatrick Stockton LLP			ART UNIT	PAPER NUMBER	
Winston-Salem, NC 27101			1625	<u></u>	
			DATE MAILED: 05/27/2004	10	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/036,912	PERRI ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Bernard Dentz	1625				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 29 Ja	anuary 2003.					
· ·	•					
,—	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>19-58</u> is/are pending in the applicatio	n					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>19-58</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	· ar					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	= ' '					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	nriority under 35 H.S.C. & 119/a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 0.0.0. § 115(a)	-(d) 01 (1).				
1. Certified copies of the priority document	ts have been received.					
2. Certified copies of the priority document		on No				
3. Copies of the certified copies of the prio	, ,					
application from the International Burea	u (PCT Rule 17.2(a)).	_				
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7.9. 5) Notice of Informal Patent Application (PTO-152) 6) Other:						



Application/Control Number: 10/036,912

Art Unit: 1625

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reichstein in view of Hinkley et al for the reasons of record in Paper No.

Applicant's arguments filed 1-29-2003 have been fully considered but they are not persuasive. The fact that aqueous sulfur dioxide is not preferred does not offset the clear teaching of Hinkley et al that it is suitable in the production of L-ascorbic acid from a derivative of 2-keto-L-gulonic acid. Note that it is the first example of the acid catalysts disclosed by Hinkley et al.

Further see Ex. 2 with regard to the beneficial effect of sulfite species to inhibit decomposition, etc. of ascorbic acid. Therein it is taught to add sulfur dioxide gas to an aqueous solution containing ascorbic acid prior to concentration and recrystallization of the derived oil.

Thus Hinkley et al would definitely motivate one of ordinary skill in the art to use sulfur dioxide as the acid catalyst in the classic Reichstein process for making ascorbic acid. The recitation of a continuous process does not predicate patentability since normally conversion to a continuous process is within the ordinary skill of the ordinary chemical engineer.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).





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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernard Dentz whose telephone number is 571-272-0683. The examiner can normally be reached on Mon-Fri from 8:15 to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane, can be reached on 571 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

B. Dentz 5-17-2004